

04645.1003

- 2 -

In the Specification:

The paragraph beginning at page 3, line 5 has been amended as follows:

The present invention is, therefore, directed to a mixture of two polymeric binders that are insoluble in nonaqueous organic electrolytes activating alkali metal and alkali metal ion electrochemical cells and that provide provides flexible, non-brittle electrodes dischargeable at elevated temperatures. The first binder is preferably a halogenated polymeric binder, and more preferably a fluorinated polymeric material, such as PVDF. The second binder is polyimide, and preferably one derived from a polyamic acid prior to activating the electrochemical couple. A preferred binder mixture is PVDF and PI. An electrode comprising such a binder mixture can serve as the cathode in a primary alkali metal electrochemical cell or as the negative electrode in a secondary cell, such as a lithium ion cell.

04645.1003

- 3 -

The paragraph beginning at page 14, line 29 has been amended as follows:

Suitable nonaqueous electrolytes comprise an inorganic salt dissolved in a nonaqueous solvent, and more preferably an alkali metal salt dissolved in a mixture of aprotic organic solvents comprising a low viscosity solvent including organic esters, ethers and dialkyl carbonates, and mixtures thereof, and a high permittivity solvent including cyclic carbonates, cyclic esters and cyclic amides, and mixtures thereof. Suitable nonaqueous solvents are substantially inert to the anode and cathode electrode materials and preferred low viscosity solvents include tetrahydrofuran (THF), methyl acetate (MA), diglyme, triglyme, tetraglyme, dimethyl carbonate (DMC), diethyl carbonate (DEC), dipropyl carbonate (DPC), methyl ethyl carbonate (MEC), methyl propyl carbonate (MPC), ethyl propyl carbonate (EPC), 1,2-dimethoxyethane (DME), and mixtures thereof. Preferred high permittivity solvents include propylene carbonate (PC), ethylene carbonate (EC), butylene carbonate (BC), acetonitrile, dimethyl sulfoxide, dimethyl formamide, dimethyl acetamide,  $\gamma$ -butyrolactone (GBL),  $\gamma$ -valerolactone, N-methyl-pyrrolidinone (NMP), and mixtures thereof.